

**IN THE CLAIMS****Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1-27. (Cancelled).
28. (Original) A method for making polymer-coated aggregates of single-wall carbon nanotubes comprising dispersing aggregates of single-wall carbon nanotubes and a polymer in a solvent by a method selected from the group consisting of mixing, sonication, heating and combinations thereof.
29. (Original) A method in accordance with claim 28, wherein the aggregates of single-wall carbon nanotubes comprises ropes of single-wall carbon nanotubes which are substantially aligned along their longitudinal axes.
30. (Original) A method in accordance with claim 28, wherein the aggregates of single-wall carbon nanotubes comprises bundles of single-wall carbon nanotubes which are substantially aligned along their longitudinal axes.
31. (Original) A method in accordance with claim 28, wherein the aggregates of single-wall carbon nanotubes are coated with at least two different polymers.
32. (Original) A method in accordance with claim 28, wherein the single-wall carbon nanotubes in the aggregates are substantially free of amorphous carbon.
33. (Original) A method in accordance with claim 28, wherein the polymer and the aggregates of single-wall carbon nanotubes are added to the solvent sequentially.
34. (Original) A method in accordance with claim 28, wherein the polymer and the aggregates of single-wall carbon nanotubes are added to the solvent simultaneously.
35. (Original) A method in accordance with claim 28, wherein the solvent comprises water and the polymer is water-soluble.

36. (Original) A method in accordance with claim 28, wherein the solvent further comprises a surfactant.

37. (Original) A method in accordance with claim 28, wherein the concentration of the aggregates of single-wall carbon nanotubes in the solvent is between about 0.1 gram/liter and about 5 gram/liter.

38. (Original) A method in accordance with claim 28, wherein the concentration of the polymer in the solvent is between about 1.0 percent and about 5.0 percent by weight.

39. (Original) A method in accordance with claim 28, wherein the solvent is heated to a temperature at least about 40 °C.

40. (Original) A method in accordance with claim 28, wherein the solvent is heated to a temperature of between about 50 °C and about 60 °C.

41. (Original) A method in accordance with claim 28, wherein the solvent is heated between about 0.1 hours and about 100 hours.

42. (Original) A method in accordance with claim 28, wherein the solvent is heated between about 1 hour and about 50 hours.

43. (Original) A method in accordance with claim 28, further comprising the step of extruding the polymer-wrapped aggregates of single-wall carbon nanotubes with a second polymer to form a composite of single-wall carbon nanotube aggregates.

44. (Amended) A method in accordance with claim 28, further comprising the step of removing the polymer coat from the polymer-coated aggregates of the single-wall carbon nanotubes by contacting the polymer-coated aggregates of single-wall carbon nanotubes with a second solvent having a low surface tension.

45. (Amended) A method in accordance with claim 44, wherein the second solvent comprises a chlorinated hydrocarbon.

46. (Original) A method in accordance with claim 28, further comprising the step of aligning the polymer-wrapped aggregates of single-wall carbon nanotubes by application of an external field selected from the group consisting of an electrical field, magnetic field, and shear flow field.

47. (New) A method in accordance with claim 28, wherein the polymer is selected from the group consisting of polyvinyl pyrrolidone (PVP), polystyrene sulfonate (PSS), poly(1-vinyl pyrrolidone-co-vinyl acetate) (PVP/VA), poly(1-vinyl pyrrolidone-co-acrylic acid), poly(1-vinyl pyrrolidone-co-dimethylaminoethyl methacrylate), polyvinyl sulfate, poly(sodium styrene sulfonic acid-co-maleic acid), dextran, dextran sulfate, bovine serum albumin (BSA), poly(methyl methacrylate-co-ethyl acrylate), polyvinyl alcohol, polyethylene glycol, and polyallyl amine.

48. (New) The method in accordance with claim 28, wherein the single-wall carbon nanotubes are dispersed with at least two different polymers.

49. (New) The method in accordance with claim 36, wherein the surfactant is sodium dodecyl sulfate (SDS).

50. (New) A method in accordance with claim 44, wherein the second solvent comprises tetrahydrofuran.